

# Home Computing WEEKLY

As An Apple Licensed Publication

No. 67  
June 19-25, 1984

45¢

## Win

a flight simulator  
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competition

Commodore  
show: first full  
report, including  
the new micros

Software  
reviews for:  
Commodore 64,  
Spectrum,  
Dragon, VIC-20,  
Oric and Atari

Programs to  
type in for:  
VIC-20, TI,  
Commodore 64

PLUS  
news, U.S. Scene,  
your letters, One  
Man's View, latest  
software charts

## TITANIC



## Battle of the giants

Sales of Commodore computers is claimed to have exceeded those of Sinclair in March, according to a new report.

Research Analysts Marketing came to this conclusion after carrying out a survey on 500 independent hardware and software outlets. However, they left out major high street outlets, such as Dixons, W. H. Smith and Deans, apparently because of the impossibility of obtaining sales figures from these retailers.

*Continued on page 8*

Don't get off having a computer is the fear that the price will drop, said Commodore's UK boss as he launched two new micros.

Howard Hamworth, speaking at the 1984 Commodore show, said the price war had now moved to a halt.

The company's two new computers share many of the same features, including a 320 KROM containing the operating system and BASIC, and a typewriter-style keyboard.

The Commodore 64, designed for beginners and sold as a starter pack for £229, has 148 of RAM and the Commodore Plus/4, priced at £249, has 64K of RAM.

Commodore also previewed two 2800K 16-bit computers.

● Full show report — pages 5 and 6

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listings

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# Home Computing WEEKLY

**AD ASTRA**  
**"TO THE STARS"**  
 SPECTRUM AND  
 ACTION BY  
 GUNTER R. SCHUBERT  
 1991-1992-1993

## REGULARS

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## PROGRAMS

<b>Unrecorded</b>	<b>WTC-20</b>	<b>00</b>
Get things quickly... and design your opponent's firm as a game-theory exercise (10/1/2008)		
<b>Commented</b>		<b>00</b>
Two people who go to read your chairman's knowledge and then try to bust on the United Nations		
<b>WTC-20</b>	<b>00</b>	<b>00</b>
Will someone check and report for me and insurance?		

HOME COMPUTING WEEKLY  
BRITAIN'S BRIGHTEST

**IX USER**

Another FREE 16-page magazine for owners of the Spectrum and the T100. Here's a sample of what's on this issue:

- Three pages of Spectrum software reviews
- a great subscription to type in for the 486, Spectrum
- test yourself with our games for the 16, 286!
- keep track of your software with our e-mail reader
- for our readers with a windows machine, to check on

There's a full complement of on-board USB ports, and a 2X Ultra



- All the laptops in Human Computing Weekly are tested for quality and checked for accuracy. You'll find programs for these micro in this column.

## SOFTWARE REVIEWS

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**Editor:**  
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## KALAN

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## No gloom as Commodore show new micros

There's no reason for gloom, despite the collapse of three dot-com makers, and Commodore's UK boss as he launched two new home computers.

Speaking at the fifth Commonwealth show, UK general manager Richard Stappworth said that, with 25 home mixes and 200 live transactions on sale, it was easy to understand the confusion in people's minds.

The Commission did not doubt the integrity of the market — the LDC was a specialised unit with customers in 13 per cent of houses.

He said, "What we have going perhaps is that competitors are less, whether they are used for games or for more serious purposes."

<sup>22</sup>There is, of course, no question that there is no need for his kind of conservatism.

"People are used to feel that technology is a barrier between them and society. We know better and prove."

His **Stateworth and Company**, a new macro-network using the phone system, would help. Promoted in HCW, Company will use a 100/960 Communique machine — including a free 12-month subscription — to offer decision software, mailbox and, in the future, features like catalogs, databases and financial services.

CompuLink, using 12 telephone numbers throughout the UK, is due to be available first for Com modore 64 users, by the end of the year.

But since war the different growth the great war had grown to a hub there was no reason to put off buying a computer in the fear that the money was about to drain.

Commodore's two new home computers share many of the same features, including a 128 KROM cartridge, the operating system and more than 80 BASIC keywords, including graphics and sound, and a type writer-style keyboard, including a HELP key.

That integer differences are not necessarily small and thus not always

The Commodore MegaDrive, for beginners, is sold as a starter pack supporting compatibility, via software, introductions to BASIC part 1 and line games. It has 64k of RAM, of which 12k is available to BASIC.

The Commodore Plus/4 priced at \$249, based on RAM 64K, available in BASIC, will drive software packages in ROM word processing, a spreadsheet, database and business structure.

Thompson says that the researchers' theory is based on the fact that the brain's ability to process information is limited. The brain can only process a certain amount of information at any given time, and if it is overloaded, it will start to "forget" information. This is why people often forget things when they are stressed or busy. The researchers believe that this is why people often forget things when they are stressed or busy.

Proton: 700, running at 100 MHz

Develop: 40 to 70 years, 100 to 200  
miles; 1000 to 2000 miles; 1000 to 2000

1.5 contours, 1.5 contours, right, human  
1.5 contours, 1.5 contours, right, human

### What was new at the Commodore show. Paul Liptrot brings the first full report



- **Consolidator's new PLUS4** and the **1000** also drive...

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

**Keyboard:** 87 keys/60 on the 18 which includes HOME &K, providing four numeric control and four function keys.

There is a range of new postcards, including: day dinner and cocktails.

Commodore purchased two 240000 16-bit computers that Commodore INC. an IBM-compatible with 256K of RAM, two hard disc drives and 30 serial

### COMMUNITY ACTION PLAN

[illegible]

screen, and the Commodore 2 with Ultra-DiskCharge 7 operating, is also a first for multi-user and multi-tasking.

The Commodore II also has very high resolution and scan speed — like the Apple Line — and resolution.

Both are not due in the U.K. in the first quarter of next year. Prices were not given, but the IBM compatible is priced at £1,090 and our sources suggest that the Commodore 2 will be priced at about \$3,000 in America.

The others, with more than 100 stands, featured attractions like bodybuilding, basketball stars, computer racing games, Surfing Miss and TV personality Christopher Higgins, computer motor with Radio Luxembourg and

Manufacturing the new products on

**Icons** presented in graphics packages for the Commodore 64, which is to offer a graphics editor and a print handling. Priced at £14.99 as a sharing in a work with versions for BBC, Electron, Amstrad and VIC-20 to come.

Micro Power has brought out its first Commodore 64 software — all converted and enhanced from BBC versions and including an Power Load, used to load 30 times faster. The prices, all at £6.95, are Ghosk Cybernet, Micros and Felix in the Future.



● **William Perrow** introduced a concept of **normal accidents**

## SPECIAL REPORT

New releases from **Quintessence** for the **CompuLink 64** and conversion of three popular Spectra programs from **New Generation** **Trakman**, **Europe** and **3D Terrain**. All are \$3.95.

**Shorthand** now has new software for the E1045 light pen for the Commodore 64 and the VIC-20. A new cassette interface for both costs \$24.95.

Rabbi showed its Death Save game for the Communists-64 and Alaska provided to CAD (computer-arranged) per-centage for the 64. It costs \$25, including a 10% fee.

A range of new alloy castings, 2025-244, was shown by Stank, all for hot-chamber casting. 64 DTL compiler, costing £14.95 on cassette and £24.95 on disc.

Now for the 54 from Paramount is *Room Lord*, a 54-minute adventure which involves tracking down criminals in a

Jeff Blower, of Linnsoft, and he was off to Paris soon to see the Besses. He was showing Minneapolis's Linnsoft Radio in the *College of Times*, \$3.50, which has been measured for the 64 from the VCC. And within a fortnight he plans to release, at \$7.50, an Asian version of *Attack of the Unknown* (Columbia).

**Hotels** Ben pronounced a new game from Dumping Duggan, author Richard Clark, after he has finished his 31-yr-old. Called *Cave Fighter*, it will be out in July for the NES and MS-DOS. The company has a new war game, *Solar Force*, and has put together its third 4-unit — word processing, label printer, poster printer and a desktop package — also with package called *Quantities*, now \$14.95. See page 44.

Development	Physical	Language	Personal	Social
-------------	----------	----------	----------	--------



■ **Corporate Risk:** is more U.S. companies

**Interpretation**, showing Ben Gray's new title *Tales of the American Highway* is a 27-minute game for the 44 which features speech. Where's My Boy? *Interpretation* also has a new soundtrack. (Pike 127)

Amiga launched a graphics package called Cue-Rite, at £14.95 for the 64. And there were two new games for the unexpanded V10, *Whomus*, a robot chess game, and *Blas*, similar to Amiga's *Blaxxon*. Both cost £4.95.

**Alfons** in **Valterland**, **E32** **93** on **discovery**, is it that **stands** **him** from **Autopneum** after being **praised** at the last **Commodore** show. **Henry** **Smithson** explained that the **U.S.** company for whom the author was working ran into **money** trouble, so **Autopneum** took over the game. The program, based on **Lewis** **Carroll's** book, is **80K**, long and loads in sections. **Autopneum** also brought out **Franklin** **Franklin** and **Paganini**, also on **E32** 94.

**Multitasking Home**, which has several parents and books (and up to six authors) released, launched a 64-episode game to find *Star Trekker* (25.95). At the end of June, *Heroes Come Sail-ing*, already out for 100 days and *Speedway*, is promised for the Design. One of the extreme problems is a pre-school programmed *Animal Africa*, in which children change around the beasts, bodies and legs of animals.

Master Blaster is a new del  
system from Brunswick at \$17.95.

■ **Super Block.**  
is now graphics tablet  
from Australia



**■ 64 Doctor,**  
a new diagnostic  
program from Protonics



was typed and edited for the discussion, contributions to discussion.

1985 manual. SuperSoft also has Interceptor Plus, a space flight simulator written by an RAF pilot, at the same prices and Graphics Designer (SR 95 tape, £11.95 disc) as well as three new 64 games, Fxler Painter, Snow-Covered and Star Crash, all at £6.95.

A new disk reader for the 64 was released by **Fracture**. Called 64 Doctor, it is a series of diagnostic tests designed to find the defect, whether it is as necessary, keyboard, disc drive, joystick, RS-232 port, video display, audio or power. It costs \$17.95 on tape and \$19.95 on disc.

A newly formed Swiss company, **Personal Peripherals**, showed Super Sketch, a graphics tablet for the 64, VIC 20, 128K, 4K and Commodore, and Super Sketch, a joystick claimed to be more durable than its rivals. Both should soon be on sale in the U.K. Dealer prices are £49.95 for Super Sketch, including cartridge software, and £5.95 and £24.95 for the two Super Sketch models.

Milroynoff brought up three new titles for the fall (Jan. 1994), sports editing Louis Sharpe, an observation manual for children and Count with Oliver, which is for four seven-year-olds. Look Sharpe and Count with Oliver are also available for November.

■ **Composed in action.** The black master plays into the back of the chair.



1000

[illegible]

Figure 1

John Beyer, marketing manager at Commodore, said: "We knew we were going behind Sealed Air and now we have beaten them."

"The Compaq provides better value for money than the Spectrum," he continued. "It has a better warranty, proper keyboard and at least 20 per cent of the people who buy our computers are buying due to the warranty."

"It's the computer for the person who's serious about computing. The Spectrum isn't suitable for business or for word processing."

Mr. Hunter also stressed the role of Commodore sales software. "There is a lot of good software available for the Commodore 64," he said.

"We will ship 40,000 Commodore 64s in June. Of these, 45,000 are orders, so that leaves only 15,000 to sell. Our back-up strategy is good. Admittedly after Commodore we did have problems, because we sold so many computers. Four per cent returned, or 200,000 machines is still a lot of computers. So there were shelves!"

However, the problem is now reversed according to Mr. Bussan: "Computers are ordered to the manufacturers for a variety of reasons, and sometimes because the user doesn't yet know fully how to operate it. We now have a three-day turnaround that means that from the time we receive a returned computer, we have three days we will need to find a reason."

"We are very pleased in our sales division."

However, Sinclair was sceptical about the claim that Commodore was ahead. A spokesman said "The survey which Commodore is quoting is based on a very small selective sample of independent dealers, and isn't a comprehensive assessment of the whole market."

He went on. "The AGR-Honore Audit report on units of competitors for the first quarter of this year, to the end of March, had Samsun with 42 per cent of the quarter, and Camanodun with 26 per cent, followed by Accra a long way behind with 14 per cent. These findings are from falling independent research carried out right across the board, and have been confirmed by our own research."

**When you consider all the  
opportunities & programs offered**

For June, the spokesman said "Singapore Express won't be participating in other events, and

can in fact be very misleading. Some doctors may want to stockpile antibiotics for the summer.

He concluded: "I am confident that Sussex will remain allied with Cambridge independently in several ways."

Howe's sales figures back up Raskin's argument. A recent executive said "The 486 Spectrum is currently our best selling model by a significant margin. It has been consistently outperforming the Commodore 64 over the last couple of months."

## First MEX SOFTWARE

Kuma claims to have released the first MSA program in Europe. ZEN Editor/Assembler/Disassembler is reported to be a complete system for generation and analysis of 286 assembly language programs. Included in the price (\$1995) are a symbolic assembler and disassembler, test editor and machine code monitor. The complete source code of ZEN itself is supplied on every disc.

Tom Day, sales manager of Kureit, said "We are developing a comprehensive range of utility and environmental solutions for the MRC. I think ZEN will be available to users wishing to write and design efficient assembly code programs."

Area: 4/17/12, Mountain  
Park, Harrison, Ark.  
Elevation: 2000-2500'

## Write your own programs

**Floppy Filenator** is a combined reconfigured database/program generator for the BBC with two drive-rich floppy disks. Available from Downtech, the Filenator is intended to enable novices to write their own reconfigured database programs easily and quickly.

When using Flowriter, you simply type a control layout on screen and instruct the software program to translate the information into the appropriate computer code. The programs produced are self-jumping and repeat dialog input. They also inform you when an error has been made. Price: £39.95.

Persons, New de Commerce  
 Street, St Peterburg, Germany  
 174

**Spectrum**  
**add-on**

Here's a new add-on for your Spectrum: the LoProfile keyboard, from Advanced Memory Systems. Featuring a full length space bar and a dedicated numeric keypad, the keyboard increases the number of keys from the Spectrum's 40 to 73. The sculptured keys are height adjusted and clearly labeled.

You place the PCB inside the keyboard housing, and all connections use the ports at the rear of the unit. You don't need to adapt any of the connectors, which of course makes the whole much simpler.

The Loff-profile is available by mail order, price £49.95 plus £2.50 p.p.s., or from your favorite dealer.

Advanced Memory Systems,  
Green Lane, Appleton,  
Wisconsin, Circuit Model  
1001

## NEW BBC PROGRAMS

Two new programs for the BBC: *Crazy Cases*, an adventure, and *Labbit*, a labelling assembler, from Microsoft.

In *Crazy Caves*, you must retrieve the crystal amulet from the caverns of death and place it in the hands of an old man. Find other gems on your way and use them to battle the evil ones.

Labdac is written by Jacques Sire in ISO per card machine code. It is compatible with all existing filing systems, and is more efficient.

Crazy Caves costs \$7.95 for concrete and \$9.95 for clay, while Lubin costs \$9.95 and is available in concrete.

*Author's address:* London, UK.  
*E-mail address:* St. London, UK.

## Briefly

Don't waste if you've broken your joystick. Computer Supplies presents a fast joystick repair service — within 24 hours, no fee. Available for new models, including Atari, Commodore, Quattro and Triga Computers, the cost is \$1.95 plus \$10 p&h. You can also buy stronger replacement handle cases for Commodore 1310 joysticks from Computer Supplies, at \$2.95.

Computer Systems, And Church  
And Home, June 1997, 302

Pop song to the "Woodside Computer Event in Slough," on Thursday June 14 between 11 and 9 p.m. You will see demonstrations of hardware and software in education, work and the home. Slough has been suggested as the computer capital of the Thames Valley and Woodside will attempt to prove this.

**Woodside Open Secondary School, Marney Road, Weymouth, Dorset, Dorset, DT1 1JH**

If you're looking for a new programmatic point-and-click interface, you will be interested in the new release from Custom Codes International. For the Spectrum, it is fully programmable and uses on-board RAM Prog 113, or includes optional ROM

Clayton Cable International,  
Cables 1, 3 and 4, Star 774 Ave  
E, Saffron Walk, Suite  
200, LEO

Here's help for solving tomorrow's problems — **Thomson's Handy Tool-Kit**, from OW Components. Its aim is to help you make important, timely and correct decisions. Available for the IBM Spectrum, it costs \$4.95, and you get a 14 voucher against the cost of the handy book. Write Thomson, by David Beale, 6287 Commonwealth, 20 Cash Zone Lane, Mingleford, North AL11 1JY.

Dell's work along in London is reported into the computer field. Dell has attended the three ground floor computer department to upgrade hardware and is now offering customers business opportunities in up to eight of the most popular home computers. Also available are games and education software, as well as computer books, of course. Dell's hours will cover 1,000 stores in its stock room.

DeLong, J. Albert, Jr., Director

Accompanying a new dual-game pack for the title, Galaxy Ridge from Magna, The Discovery is part 1 — a classic test-and-quest, to discover primitive technological artifacts from the deep wastes of earth. Part 2 is an adventure program, Escape from Solana, which is for two players and two IBM's. Load them with a \$5.425 disk, a joystick and play. You can also play on one screen using a split-screen board. Price: \$145.

Author	Journal	Year	Volume	Page
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	1982	42	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	1985	48	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	1988	54	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	1991	60	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	1994	66	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	1997	72	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2000	78	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2003	84	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2006	90	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2009	96	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2012	102	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2015	108	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2018	114	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2021	120	115-126
Adams, J. A.	<i>Journal of Personality and Social Psychology</i>	2024	126	115-126

## Publish your masterpieces

If you want your own games, you will be assisted in this Times Bookie at publishing two books of computer games and games, one for the IBM PC and the other for the Spectrum, and will award two top prizes of an Apple II+30 portable computer to the best programs submitted. Five runners-up could win a Maplin Electronics voucher, and all published works will win £100 W H Smith vouchers.

Select your racing winners in BASIC on a computer if possible, together with a brief synopsis of the nature of the projects and a note on the level of difficulty. You will receive the copyright Times Bookie of Computer Fiction and Games, c/o Network, 8 Hogg St, Reading RG1 1JH, Reading, Surrey GU11 2JH.

## School's out

Looking for something to do in the long summer holidays? PGL, a running two computer day camps for youngsters in the north. The camps will run from 15 July to 10 August at two schools in Liverpool, and you can be picked up from east of Liverpool at a 30-mile radius of central London.

At the start of the week you will be assessed and then you begin with a fundamentals programme, followed by a course which has been tailored to suit your particular level of experience. You'll work on the BBC and/or Microcom.

Try your hand at word processing, design and data base handling and see

yourself, and disc drives. Each person has the use of a terminal. There are two age groups, 9-12 and 13-15 years.

You won't go home tired over the course, either: half of the day you'll be taking choice from 40 different activities, including horse-riding and mini-motorcycling.

For one week, you'll pay £76 plus VAT and you get the money that PGL camps are AFTA-funded. Get your brochure from your local travel agent or direct from PGL.

PGL, Pennine Adventure, Skipton St. James, Wetherby, West Yorkshire, WF8 3AH.

## War of the Worlds

CRL has released a game based on HG Wells' War of the Worlds, for the IBM Spectrum. Written by Nigel Taylor, a 19-year-old schoolboy, it has you taking the role of the journalist travelling across the home counties to the Martian onslaught.

Humans are the Martians fighting machines, which confine you to the very windy, muddy, and the end, which will obscure your passage and force you to find an alternative route.

You may not be too happy on someone else's, in the right

order, if you are to escape. Come from the Martians' reconnaissance on the north side. You also need to find food and drink and shelter.

You can find others to the group order of battles in Jeff Wayne's War of the Worlds double album. CRL says that versions for the IBM PC, Amstrad, BBC, Electron and MSX are also in the pipeline.

CRL, CRL, No. 9 Hogg St, Computer's Rd, London E11 2JH.

## Scare off burglars

Use your Commodore 64 as a VCR to protect your home from unwanted intruders. The second system from Micro-Security also has an I/O interface and which connects to the output of your micro.

A complete DIT kit containing I/O interface unit, control program on tape or diskette, external alarm bell and microphone housing, external buzzer, power switch, 10 sets of electrical lead cabling, cables, cable clips and installation and operation instructions, sells for £85, plus £5 p.p.s.

Installation and software alone costs £29.95, plus £2.50 p.p.s.

Micro-Security, PO Box 11, Merton, West PO8 2LL.

## Where am I?

Lloyd Bank is running a project to support local archaeological societies by donating modern items of money to help with purchase of equipment. What's has got to do with computing, you may ask?

Archaeologist Paul Brown has written a program to help with a recent dig by the Malden archaeological group. His program, Ploc, was from C64 from Lloyd. The problem Mr Brown tried to overcome was where he was doing a dig. The ground floor of the pit he was working on was constantly

A keyboard which is claimed to be virtually indestructible has been developed for the Atari 400/500. Made of silicon rubber, it is a stack-down keyboard which is easy to apply. Price £19.95.

Atkins, 21 Chappinham Mews, London NW1 2AN.

• Another portable keyboard from Philips

moving to be never had time to make his discoveries.

Practical enables him to program his own location. He takes three compass readings and finds them into the computer. The Spectrum does the hard work for him. If you're a computer buff as well as being an archaeology buff, you can obtain copies of the manual by sending £3 to

Paul Brown, 152 Farnbridge Rd, Merton, Essex.

## Switch on to micro show

If you live in Scotland, tune in to Glasgow TV's new series *Switch On To Micro* is a six-week series which will begin on Saturday June 9 at 10 a.m. Presented by local DJ Bobby Blue, the series will feature demonstrations and reviews of software. A wide range of machines will be used and different computers will share the highlights each week.

Also planned are interviews with professionals of the industry. Dr Minto will be on hand to offer advice on your programming problems and Bobby Blue will review hardware.

The first in the series features games reviews for C64, BBC B and Spectrum computers. The program Electronic 64 computer will be making its TV debut and Matthew Smith, author of *Master Mouse* and *Mr Soft Welly* will be talking about himself.



## Colossus Chess 2.0 \$9.95

CDOS Home Systems 10 West  
Field Close, Trillick, Downshire

This program gives a rather nice high resolution view of a chess board. Your moves can be recorded by using a computer file, or standard file systems are convenient. Moves are easy to see.

The program offers a record feature which displays the relevant information relating to the game. This includes the moves so far, suggested best moves, potential and historical state of each player and the state of the game at each move. The level of play is determined by the time you allow the machine to search for its move. This is available in seconds.

displays from 0 to 1000 turns. There are several other levels of play. I found the program almost a breeze, although on very easy levels it did make some silly moves.

The real strength of the game is the huge range of options. You can set up positions, save all relevant old game and hardware to make an instant move. You can get the machine to copy a game, and the chess board with a comment which shows all legal moves for any given piece, even as it targets and for beginners.

instructions	15%
record one	15%
graphics	100%
value for money	100%

★★★★★

## Pub Quest \$5.95

Travis, 261 South Brimingham  
Road, B301 2JB

It is easy to see about the situation in many pub-scenes. The reason is so find your money, which is in the service, so you can pay off your bill to the barmaid that last. To make things a little harder you should have a good time as you drink and will have a good time as you drink. You can find a good time as you drink and will have a good time as you drink.

Because attention should be paid to the description, which may lead them to possible traps in the game. The program for the money can play better games than

any. So in the end you can find a good time as you drink and will have a good time as you drink.

There are no graphics to complicate the scene. This is a real strength of a program because the description can be used to find the money that you have built up as a result of where you are.

Looking for a good time as you drink and will have a good time as you drink. This may sound a little time but the time is worth it. You could always get your off because it is a real while the program leads — you can get a good time as you drink.

instructions	40%
record one	15%
graphics	100%
value for money	100%

★★★★★

## Space Pilot £7.95

Salway, 22 West Hill, Daresbury,  
Cheshire

This game will appeal to the more adventurous players who are always wanted to rule the sky and kill anything that moves.

The object is to shoot down the enemy aircraft, collect the instructions and finally blow up the opponent. Considering this will cost you more money than all money possible there are five levels in all, each one consisting of three types of aircraft. Some additional points in the strategy of the game.

The machine is a screen in which you can see the game. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

The graphics are slightly noisy and lack definition. However, this is quite acceptable. The game is played on a screen in which you can see the game.

I found that when playing the game, the graphics were quite up to the task.

Space Pilot is a good game which looks well — it only takes 10 seconds. A personal recommendation to the keyboard for

instructions	100%
record one	100%
graphics	100%
value for money	100%

★★★★★

# Five more for the 64

Games for the Commodore 64  
— including a look at two of  
the new low-priced titles from  
Mastertronic

## Squirm £1.99

Mastertronic, 48 George St,  
London W1

This is a variation on the classic 'your mouse game'. In this one a mouse moves around the screen trying to eat your mouse. You can follow the trail making them up. Two good options may lead you to a good time as you drink.

If you mouse on column 224 you can have a better time. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

When you eventually run out of time, the high resolution is displayed, if you can manage the

ing. The machine is a screen in which you can see the game. The game is played on a screen in which you can see the game.

The machine is a screen in which you can see the game. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

I liked the game. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

instructions	100%
record one	100%
graphics	100%
value for money	100%

★★★★★

## Jungle Story £1.99

Mastertronic, 48 George St,  
London W1

A different and more game with a different. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

The machine is a screen in which you can see the game. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

The machine is a screen in which you can see the game. The game is played on a screen in which you can see the game. The game is played on a screen in which you can see the game.

instructions	100%
record one	100%
graphics	100%
value for money	100%

★★★★

# CHARTBUSTERS

## BRITAIN'S SOFTWARE CHARTS

by the ASP Market Research Group

### ARCADE

1 Jaxxon and The Marmalade	Teac	Spectrum 40
2 Jet Set Willy	Software Pinnacle	Spectrum 40
3 Platform	Amos	Spectrum 40
4 Super Pipeline	Telecast	IBM 6400
5 Buck Shoot	Master Theatre	VIC 60 14
6 Crazy Loop	Intersector Mare	VIC 60 14
7 Backblast	US Gold	IBM 6400
8 Topol	Vision	IBM 6400
9 Ark Ark	Ultimate	Spectrum 10
10 Space Pilot	Amos	IBM 6400

### NON-ARCADE

1 Mapy	Melbourne House	Spectrum 10
2 High Park Test	Amos	IBM 6400
3 End of Rome	APS	Spectrum 10
4 Snooder	Vision	IBM 6400
5 Test Match	CGI	Spectrum 10
6 Twin Kingdom Valley	Segrate	IBM 6400
7 Golf	Admiral	Spectrum 10
8 Space Flight	U.S. Gold	IBM 6400
9 The Whemo	Richard Shepherd	Spectrum 10
10 Synthesizer Class	CGI	IBM 6400

Compiled with the assistance of Britain's leading software distributors, including: Pinnacles, SDL, PCE, Websters, PCS and Software Centre.

### SPECTRUM

1 Jaxxon and the Marmalade	Teac
2 Jet Set Willy	Software Pinnacle
3 Platform	Amos
4 Super Pipeline	Telecast
5 Buck Shoot	Master Theatre
6 Crazy Loop	Intersector Mare
7 Backblast	US Gold
8 Topol	Vision
9 Ark Ark	Ultimate
10 Space Pilot	Amos

### COMMODORE 64

1 Jaxxon and the Marmalade	Teac
2 Jet Set Willy	Software Pinnacle
3 Platform	Amos
4 Super Pipeline	Telecast
5 Buck Shoot	Master Theatre
6 Crazy Loop	Intersector Mare
7 Backblast	US Gold
8 Topol	Vision
9 Ark Ark	Ultimate
10 Space Pilot	Amos

### ORIGAMI 12

1 Jaxxon and the Marmalade	Teac
2 Jet Set Willy	Software Pinnacle
3 Platform	Amos
4 Super Pipeline	Telecast
5 Buck Shoot	Master Theatre
6 Crazy Loop	Intersector Mare
7 Backblast	US Gold
8 Topol	Vision
9 Ark Ark	Ultimate
10 Space Pilot	Amos

Compiled by M. H. Smith and Websters. Figures in brackets are last week's positions.

### VIC-20

1 Jaxxon and the Marmalade	Teac
2 Jet Set Willy	Software Pinnacle
3 Platform	Amos
4 Super Pipeline	Telecast
5 Buck Shoot	Master Theatre
6 Crazy Loop	Intersector Mare
7 Backblast	US Gold
8 Topol	Vision
9 Ark Ark	Ultimate
10 Space Pilot	Amos

### BBC

1 Jaxxon and the Marmalade	Teac
2 Jet Set Willy	Software Pinnacle
3 Platform	Amos
4 Super Pipeline	Telecast
5 Buck Shoot	Master Theatre
6 Crazy Loop	Intersector Mare
7 Backblast	US Gold
8 Topol	Vision
9 Ark Ark	Ultimate
10 Space Pilot	Amos

### Z801

1 Jaxxon and the Marmalade	Teac
2 Jet Set Willy	Software Pinnacle
3 Platform	Amos
4 Super Pipeline	Telecast
5 Buck Shoot	Master Theatre
6 Crazy Loop	Intersector Mare
7 Backblast	US Gold
8 Topol	Vision
9 Ark Ark	Ultimate
10 Space Pilot	Amos

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Commodore 64



VIC-20



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## Leave it to experts

*I can't resist any longer. I've been wanting to write just off these columns for ages but only today have I felt that not only do I have a strong view, but I want the rest of the world (well, the UK) to hear it.*

I am in more of many here for others. If you are what I mean? Besides my teaching post, I also write for the newspaper, chair a computer club, work as a computer shop, work as a teacher for primary and high, am a youth leader and have a book to write for the students, quite apart from serving my friends for 10-15. It is in this last capacity that I have become successful today.

Today is the post I received these programs for review. One was produced by a large organization and two by much smaller outfits. I began to look at them immediately and started to formulate ideas and answers about them.

[illegible]

Perhaps what surprised me most was the revelation that they actually might track some of the buying public into passing with their money. These poor souls would not discover their mistake until late.

This is bad for all concerned. It's bad for the purchaser who thinks a better company's products will be more plentiful and more sure. Bad for the industry itself, in the sense that it will offer good products and make it worse if it's bad for the programmer who doesn't realize that his programming could drop to a more acceptable level given time and money.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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  2. **If you are rejected, and remember 80 per cent of programs are, try to improve it again and then resubmit.** Alternatively, send it to a magazine and see if it meets their criteria. Many of us have lost, and there is money and prestige to be gained.
  3. **If still rejected, try to accept that there isn't a market for your program.** Don't make any more comments or try selling it yourself. You could lose money, friends and only gain a great deal of trouble.

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**Keywords:** self-esteem; social support; coping strategies

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**Abstract**

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Trial	Control	MCI	AD
1	95	85	75
2	95	85	75
3	95	80	70
4	95	78	68
5	95	75	65

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Compendia Inlet? You need no longer be an international language master to participate in foreign dealings if you're in Los Angeles, the U.S.'s first foreign language translation computer network.

This service was recently formed by Agave Tech-Tex and the Japanese American Translation Services. The network is comprised of foreign language translation centers in seven U.S. cities linked by telephone communication lines. The translation work is actually performed by human beings, but in all computer-assisted services available include translation of letters, advertising, and technical material into one major foreign language, computerized foreign language typewriting, layout, and production of printed materials. Foreign language narrative development for movies and videotapes, provisions for multi-lingual teleconferences.

To use the system, an interested party need only contact the service by computer and modem and can be right in in their word processor. If you are interested in further details, contact Linguatex at 1345 Wilshire Blvd., Suite 410, Los Angeles, California, 90010. (213) 380-1149



From Futurehouse Inc., comes an intriguing program for the Commodore 64 and Atari 400/600 compatibles. Called Alphabet Construction Set, this program uses a light pen, an erasable video game like screen, and computer voice to teach children how to draw the letters of the alphabet. After setup, the program points out mistakes, records the child's performance, and makes suggestions for improvement. This program is part of a line called Phonograph Software which emphasizes interactive learning coupled with use of the user and a sense of fun. See your local software dealer for details.

That's it for this week. See you next time.

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## CONQUEST

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**3D BAT ATTACK** An all-action, 3 dimensional maze game where you gather up blocks of gold at the same time picking your way against robot vampire bats whose only purpose in life is to locate, hunt and kill you.

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## 3D BAT ATTACK

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There's only one way to find out.

But be warned: these vampire bats know a good meal when they see one. And if you  
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# Wild West gunfight

Get trigger-happy and riddle your opponent with bullets, while dodging his fire in this game by Massimo Lenza

Okay, partners, ready for your eyes? It's a shoot-out!

Play with a friend and find out who's quickest on the draw. Five reactions are minimal, so let's hope your brain and finger

co-ordination is up to standard.

Not only must you shoot your opponent, but you must also dodge bullets whizzing past you. Move up, down and down two spaces at a time. Whenever you hit the mark and reward your foe you gain a point. Get ready to fire — the winner is the first to reach 20 points.

Keys to use: left cowboy: a up, w down, s down two at a time, f fire. Right cowboy: l up, s down, g down two at a time, k fire.

## How it works

- 4 set up user-defined character codes
- 5-12 you can repeat up to five, change screen up to three
- 13-16 you can move and shoot on screen
- 17-22 you can move on screen
- 23-24 shoot the keyboard for keys being pressed
- 25 you should notice one on screen
- 26-27 move left cowboy up and down screen
- 28-29 shoot at you
- 30-31 move right cowboy left and right
- 32-33 left cowboy
- 34-35 add one to score, you either cowboy back on screen
- 36-37 you should back to original position
- 38-39 shoot for user-defined character
- 40-41 move right cowboy up and down screen
- 42-43 shoot of right cowboy's
- 44-45 shoot right cowboy's
- 46-47 shoot screen screen
- 48-49 you should back to original place
- 50-51 left cowboy, add one to right cowboy's score

- Variables
- PC score
  - LC score
  - 48 keyboard input
  - A position of left cowboy
  - T position of right cowboy
  - B position of right cowboy

```

3 REM GUNSLING
6 POKE56,23:POKE6849,255:FOR T=7168TO7169+(2*8)
  PER$=POKE(A,HEX T 7 CLR
8 POKE609,255
11 FOR T=7688TO8185:POKE T,8:HEX T
12 POKE36879,8
65 FOR T=1701888:HEX T
66 FOR T=7688TO8185:POKE T,8:HEX T
75 POKE7756,6
76 POKE7984,6
77 POKE7781,7
78 POKE 7763,6
98 A=7985
99 POKEA,1
100 B=7917
110 POKEB,4
130 GETA:IF A$="" THEN138
140 IF A$="G" THEN150
150 IF A$="W" THEN160
160 IF A$="S" THEN170
170 IF A$="F" THEN180
171 IF A$="I" THEN190
172 IF A$="O" THEN198
  
```







```

173 IFR8="P" THEN 720
174 IFR8="K" THEN 721
175 POKE 7756,6
180 GOTO 130
250 POKER,0 A=A+22 POKER,1 GOTO 130
260 POKER,0 A=A+22 POKER,1 GOTO 130
270 POKER,0 A=A+44 POKER,1 GOTO 130
275 POKE36870,15
276 POKE36877,140
278 FORT=1T010 NEXTT
279 POKE36870,0
280 X=A+1 FORT=1T012 POKEY,0 X=X+1 POKEY,2
    IFPEEK(X+1)=4 THEN 350 NEXTT
285 NEXTT
290 GOTO 300
350 POKE,3
351 POKE36870,15
352 POKE36874,255
353 FORT=1T040 NEXTT
354 POKE36870,0
359 FORT=1T0200 NEXTT
360 SC=SC+1 PRINT "MSX SCORE",SC GOSUB 500
370 POKE,4
380 FORT=1T013 POKEY,0 X=X+1 NEXTT
390 POKER,1 GOTO 130
400 DATA 0,0,0,0,0,0,0,0
410 DATA 24,126,24,31,24,28,10,17
420 DATA 0,0,62,63,62,0,0,0
430 DATA 0,16,64,0,20,0,34,0
440 DATA 24,68,24,240,24,40,74,136
450 DATA 12,31,4,255,0,0,0,0
451 DATA 90,90,90,102,24,24,24,126
452 DATA 56,134,253,255,255,126,0,0
453 DATA 0,0,126,254,126,0,0
460 DATA 0,0,0,0,0,0,0,0
532 POKE36876,255
533 FORT=1T0500 NEXTT
534 POKE36870,0
700 POKER,0 B=B+22 POKEB,4 GOTO 130
710 POKER,0 B=B+22 POKEB,4 GOTO 130
720 POKER,0 B=B+44 POKEB,4 GOTO 130
721 POKE36870,15
722 POKE36877,120
723 FORT=1T010 NEXTT
724 POKE36870,0
730 Y=B+1 FORT=1T012 POKEY,0 Y=Y+1 POKEY,0
    740 IFPEEK(Y+1)=1 THEN 800
750 NEXTT
760 FORT=1T050 NEXTT
770 FORT=1T013 POKEY,0 Y=Y+1 POKEY,0
    NEXTB POKEB,4 GOTO 130
790 POKE,4
800 POKER,3 FORT=1T0100 NEXTT POKER,
    1 POKEB,4
810 POKE36870,15
811 POKE36874,120
812 FORT=1T010 NEXTT

```

# UNEXPANDED VIC-20 PROGRAM

```

813 POKE30878,8
814 LS=LS+1 PRINT"*****SCORE" ;LS
815 GOSUB 908
816 GOTO770
839 REMIPVS ONI12 CRSP DOWN112 CRSP RIGHT1
908 IF SC19 THEN PRINT"*****COWBOY ONE WINS" GOTO920
910 RETURN
919 REMIPVS ONI12CRSP DOWN112 CRSP RIGHT1
920 PRINT"*****PRESS 'S' KEY"
930 GET#1:IF#="S"THEN908
940 IF#="S"THENRESTORE GOTO908
945 GOTO938
958 GOTO6
959 REMIPVS ONI12 CRSP DOWN112 CRSP RIGHT1
960 IF#="S"THEN PRINT"*****COWBOY TWO WINS"
    GOTO958
970 RETURN
979 REMIPVS ONI12CRSP DOWN112 CRSP RIGHT1
980 PRINT"*****PRESS ANY KEY"
990 GET#1:IF#="S"THEN998
1000 RESTORE
1010 GOTO6
1028 END
    
```



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# 64 PROGRAM

```

10 DATA 160,40,0,144,60,0,160,63,0,120,63,0,160,240
20 DATA 171,40,0,160,40,0,160,240,15,171,240,63,235,240
30 DATA 63,251,240,15,251,255,15,250,255,15,63,195,15,3,3
40 DATA 5,3,11,60,195,0,40,195,0,40,227,0,56,35,120,0,0,120
50 DATA 160,40,0,144,60,0,160,63,0,120,63,0,160,240
60 DATA 171,40,0,160,40,0,160,240,15,171,240,63,235,240
70 DATA 63,251,240,15,251,240,15,250,255,15,207,255,63,0,195
80 DATA 255,192,195,240,192,203,60,240,200,15,56,192,3,136,224,0,120,32
90 REM*** SET UP SPRITES ***
90 FORT=0T062:READR:POKE12260+T,A:NEXTT
100 FORT=0T062:READR:POKE12352+T,A:NEXTT
110 V=53240:POKEY+21,31:POKEY+20,31:POKEY+37,0:POKEY+30,0
120 POKEY+39,1:POKEY+40,3:POKEY+41,13:POKEY+42,15:POKEY+43,7
125 REM*** INSTRUCTIONS ***
130 PRINT"7" POKE53260,15:POKE53281,15:PRINT"*****THE GRAND NATIONAL"
140 PRINT"*****"
150 PRINT"*****IN THIS GAME YOU PLACE A BET ON"
160 PRINT"WHICH OF THE 5 HORSES WHICH ARE"
170 PRINT"WE-RED RUN"
180 PRINT"WE-LUCK NAME"
190 PRINT"WE-GRITTA"
200 PRINT"WE-BEN NEVIS"
210 PRINT"WE-HALLO DANDY"
220 PRINT"*****IN THE HORSES HOW AND HOW MUCH."
230 PRINT"YOU START OFF WITH 200 POUNDS." G=200:REM G=YOUR MONEY
240 PRINT"SMALLEST BET IS 50 POUNDS. ENTER YOUR BET NOW"
250 INPUTB:IFB>0THEN GOTO250
253 IFB<0THEN GOTO250
255 REM***SET UP SCREEN***
260 PRINT"*****THE GRAND NATIONAL"
270 PRINT"*****"
275 POKE53260,5:POKE53281,5
280 FORT=55536T05656:POKET,2:NEXTT
290 FORT=0T029:POKE1264+T,114:POKE1384+T,114:POKE1504+T,114:POKE1624+T,114
295 POKE1744+T,114:NEXTT
300 PRINT"*****1 *****"
302 PRINT"4":PRINTSPC(31):"*****F*****"
305 REM***MOVING HORSES***
310 Y1=100:Y2=125:Y3=150:Y4=175:Y5=200:P=192
320 POKEY+1,Y1-POKEY+3,Y2:POKEY+5,Y3:POKEY+7,Y4:POKEY+9,Y5
330 X(1)=50:X(2)=50:X(3)=50:X(4)=50:X(5)=50
335 S=54272
340 F=INT(RND(1)*5)+1
345 POKES+24,15:POKES+20:POKES+1,60:POKES+5,15:POKES+6,20:POKES+7,120
340 POKES+0,180:POKES+12,15:POKES+13,215
350 POKEY-X(1):POKEY+2-X(2):POKEY+4-X(3):POKEY+6-X(4):POKEY+8-X(5)
360 LET(X)=X(X)+4
370 FORT=0T04:POKE2040+T,P:NEXTT P=P+1:IFP=194THEN P=192
380 IF(XF)>258THEN GOTO500
385 POKES+4,120:POKES+4,120
390 GOTO340
500 POKEY+21,0:PRINT"*****THE HORSE IN LAKE "F," WON"
510 IFP=0THEN PRINT"*****YOUR HORSE WON THE RACE." G=G+3
520 IFG=0THEN G=0
530 PRINT"*****YOU HAVE "G," POUNDS LEFT"
540 IFG<0THEN GOTO560
550 POKEY+21,31:POKEY+30,31:GOTO340
560 PRINT"*****YOU HAVE NOT GOT ENOUGH MONEY LEFT TO MAKE A BET"
570 PRINT"*****GOODBYE ! ! !"

```

# COMMODORE 64 PROGRAM

```

1 REM *****
2 REM *
3 REM *   SYMBOL 4 *
4 REM *   VALENCY *
5 REM *   TEST. *
6 REM *
7 REM *   IV *
8 REM *   I.GOLDBACK *
9 REM *   1984 *
10 REM *
11 REM *****
12 REM
13 POKE 54296.15
140 PRINT CHR$(147);CHR$(14);CHR$(8);
150 DIM E$(32),S$(32),V1(32),V2(32)
160 FOR I=1 TO 32
170 READ E$(I),S$(I),V1(I),V2(I)
180 NEXT I
190 PRINT "OK" * N IFL 8 * L / / / / /
200 LET I=INT(RND(I)*32)+1
210 PRINT E$(I)
220 FOR X=1 TO LEN(E$(I))
230 PRINT " ",
240 NEXT X
250 PRINT PRINT INPUT "SYMBOL ">S$
260 IF S$(X=1) THEN GOSUB 1000 PRINT " " S$(I)
270 PRINT INPUT "VALENCY ">V
280 LET A=0 IF V<V1(I) AND V<V2(I) THEN GOSUB 1000 LET A=1
290 IF A=1 THEN PRINT " " V1(I) IF V1(I)=V2(I) THEN GOTO 280
300 IF V<V2(I) THEN PRINT " " OR V2(I)
310 IF A=0 AND V<V1(I) THEN PRINT " " OR V1(I)
320 PRINT
330 FOR I=1 TO 2000 NEXT I
340 GOTO 150
350 REM ***** INCORRECT ANSWER *****
360 POKE 54276.0/POKE 54277.0/POKE 54278.0/POKE 54279.0/POKE 54273.0
370 POKE 54277.9/POKE 54278.0/POKE 54276.17
380 POKE 54272.75/POKE 54273.34
390 RETURN
400 REM ***** DATA *****
410 DATA "HYDROGEN","H".1,1
420 DATA "LITHIUM","Li".1,1
430 DATA "SODIUM","Na".1,1
440 DATA "POTASSIUM","K".1,1
450 DATA "SILVER","Ag".1,1
460 DATA "COPPER","Cu".1,2
470 DATA "MAGNESIUM","Mg".2,2
480 DATA "ALUMINUM","Al".3,3
490 DATA "IRON","Fe".2,3
500 DATA "NARIUM","Na".2,2
510 DATA "ZINC","Zn".2,2
520 DATA "NICKEL","Ni".2,2
530 DATA "Cadmium","Cd".2,4
540 DATA "LEAD","Pb".2,4
550 DATA "MERCURY","Hg".2,2
560 DATA "ALUMINIUM","Al".3,3
570 DATA "HYDROGEN","H".1,1
580 DATA "HYDROGEN","H".1,1
590 DATA "HYDROGEN","H".1,1

```







## TI-99/4A PROGRAM

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